

Prismaflex sets with the AN 69 ST membrane for CRRT

Prismaflex ST60, ST100, ST150 sets



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Prismaflex ST60 Set / ST100 Set / ST150 Set

The **Prismaflex** set is indicated for use only with the **Prismaflex** Control Unit in providing continuous fluid management and renal replacement therapies. The system is intended for patients who have acute renal failure, fluid overload, or both. This set is intended for use in the following veno-venous therapies: SCUF, CVVH, CVVHD, CVVHDF.

General Data

	Prismaflex ST60 set	Prismaflex ST100 set	Prismaflex ST150 set
Weight	795 g	830 g	905 g
Overall dimensions	27 x 22 x 9 cm	27 x 22 x 9 cm	27 x 22 x 9 cm
Blood volume in set ± 10 %	93 ml	152 ml	189 ml
Minimal patient weight	11 kg	30 kg	30 kg
Materials			
AN 69 ST hollow fiber: - Acrylonitrile and sodium methallyl sulfonate copolymer - Surface treatment agent: Polyethylene imine			
Filter housing and headers: Polycarbonate			
Filter potting compound: Polyurethane			
Tubing material: Plasticized polyvinyl chloride (PVC)			
Cartridge: PETG			
Sterilization mode: EtO (ethylene oxide)			
Filter operating specifications			
Maximum TMP* (mmHg/kPa)		450/60	
Maximum blood pressure (mmHg/kPa)		500/66.6	
Range of blood flow rate: Prismaflex ST60 set: 50–180 ml/min Prismaflex ST100 set: 75–400 ml/min Prismaflex ST150 set: 100–450 ml/min			
Filter data			
Nominal physical characteristics			
Effective surface area: Prismaflex ST60 set: 0.6 m ² Prismaflex ST100 set: 1 m ² Prismaflex ST150 set: 1.5 m ²			
Fiber internal diameter (wet)		240 µm	
Fiber wall thickness		50 µm	

In Vitro Performances

Blood priming volume in filter ±10%

Prismaflex ST60 set: 44 ml
Prismaflex ST100 set: 69 ml
Prismaflex ST150 set: 105 ml

Blood pressure drop (in post dilution mode)

(Bovine blood, Hematocrit 32%, Cp*** = 60 g/l, T = 37°C)

	Prismaflex ST60 set	Prismaflex ST100 set	Prismaflex ST150 set
Q _B ** = 100 ml/min - Q _{UF} **** = 1 l/h	46 mmHg	31 mmHg	20 mmHg
Q _B = 180 ml/min - Q _{UF} = 2 l/h	84 mmHg	55 mmHg	—
Q _B = 300 ml/min - Q _{UF} = 2 l/h	—	79 mmHg	51 mmHg
Q _B = 400 ml/min - Q _{UF} = 2 l/h	—	100 mmHg	64 mmHg

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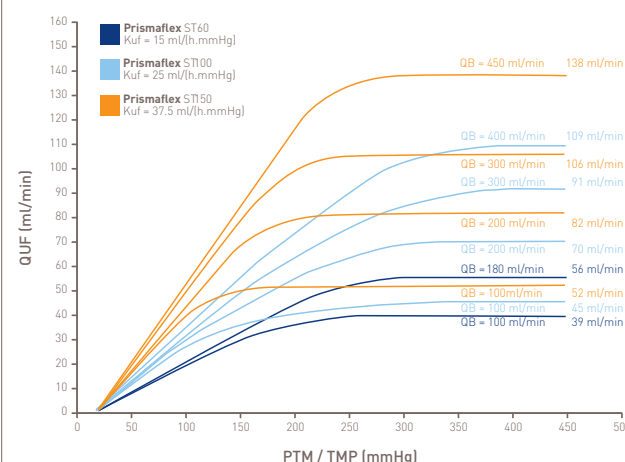
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Sieving coefficient

Q_B** = 100 ml/min, Q_{UF}**** = 20 ml/min
(Bovine plasma, Cp 60 g/l, T = 37°C)
Urea = 1, Creatinine = 1, Vitamin B₁₂ = 1, Inulin = 0.96,
Myoglobin = 0.58, Albumin <0.01

CVVH performances

“In vitro” ultrafiltration with blood (in post-dilution)
(values ±20%) (Continuous venovenous hemofiltration)
(Bovine blood at 37°C, Hematocrit 32%, Cp*** 60 g/l).



CVVHD clearances

Clearances versus inlet dialysate flow rate
(Continuous venovenous hemodialysis) (Saline, T = 37°C).

	Prismaflex ST60 set Q _B ** = 100 ml/min Q _{UF} **** = 0 ml/min			Prismaflex ST100 set Q _B ** = 150 ml/min Q _{UF} **** = 0 ml/min				Prismaflex ST150 set Q _B ** = 200 ml/min Q _{UF} **** = 0 ml/min			
Q _D /h ml/min	1 17	2.5 42	4 67	1 17	2.5 42	4 67	8 133	1 17	2.5 42	4 67	8 133
Urea (±10%)	17	40	56	17	41	63	97	17	42	66	117
Vitamin B ₁₂ (±20%)	15	26	30	16	32	41	50	17	38	51	68
Inulin (±20%)	13	19	22	15	26	30	35	16	33	40	49

*Transmembrane pressure.

**Access blood flow rate.

***Protein concentration.

****Ultrafiltration flow rate ⁽¹⁾.

⁽¹⁾The ultrafiltration flow rate is the “patient fluid removal flow rate + replacement flow rate + pre-blood-pump flow rate”.

Ordering Information

	Code N°	N° units/box
Prismaflex ST60 set	107643	4
Prismaflex ST60 set CKT	115308	
Prismaflex ST100 set	107636	4
Prismaflex ST100 set CKT	115309	
Prismaflex ST150 set	107640	4
Prismaflex ST150 set CKT	115310	
5-liter effluent bag	115959 (SP414) or 114423 (A6001)	40 (SP414) 50 (A6001)
9-liter effluent bag	107650 (SP418)	30



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